

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Original) A composite article comprising a metal reinforcing element and molded plastic coating firmly attached thereto, wherein said reinforcing element is formed to define an open channel having a longitudinal axis and an open side parallel to said axis, and said plastic coating includes a portion formed as a wall mechanically closing said open side of the channel.

Claim 2. (Original) The composite article according to Claim 1, wherein the form of said open channel allows insertion of a mold core snugly fitting said reinforcing element, the insertion being through said open side, in the absence of said plastic coating.

Claim 3. (Original) The composite article according to Claim 2, wherein said reinforcing element has two side walls and a transverse wall connecting said side walls.

Claim 4. (Original) The composite article according to Claim 2, wherein said reinforcing element has a profile shaped as a truncated oval.

Claim 5. (Original) The composite article according to Claim 2, wherein said reinforcing element comprises two walls connected along a common edge.

Claim 6. The composite article according to Claim 1, wherein said metal reinforcing element has openings for providing better adhesion with said plastic coating.

Claim 7. (Original) The composite article according to Claim 6, wherein said openings are through-going and said plastic coating has protrusions with swollen heads at the inner side of the channel, obtained through said openings.

Claim 8. (Original) The composite article according to Claim 1, wherein said metal reinforcing element is made of one of the following: bent sheet metal, extruded metal profile, rolled metal profile.

Claim 9. (Original) The composite article according to Claim 1, wherein said plastic coating has closed tubular form embracing said metal reinforcing element.

Claim 10. (Original) The composite article according to Claim 1, wherein said plastic coating has a form including a second channel with open profile having two free edges, said two free edges being fixed to two respective edges of the open channel of said metal reinforcing element.

Claim 11. (Original) The composite article according to Claim 1, wherein said metal reinforcing element is formed to define a plurality of open channels each of them being mechanically closed by a wall which is a portion of said plastic coating.

Claim 12. (Original) The composite article according to Claim 1, wherein said metal reinforcing element is formed to define a plurality of open channels, some of them being mechanically closed by a wall which is a portion of said plastic coating, so as to allow bending of said composite article along the rest open channels.

Claim 13. (Original) The composite article according to Claim 1, wherein said plastic coating has a portion at least partially covering said metal reinforcing element at the inner side of said channel.

Claim 14. (Original) The composite article according to Claim 1, wherein the closing wall formed by said plastic coating has at least one opening.

Claim 15. (Original) The composite article according to Claim 1, wherein said plastic coating has at least one opening located so as to expose a portion of said metal reinforcing element.

Claim 16. (Original) The composite article according to Claim 1, having at one end thereof an extension of said injection-molded plastic coating with external shape allowing tight insertion of said extension into the channel of a similar composite article, in the direction of said channel axis.

Claim 17. (Original) The composite article according to Claim 1, wherein said plastic coating is at least one of the following materials:

thermoplastic, polymerizing resin, polypropylene, polyacetal, polystyrene.

Claim 18. (Original) A constructive element comprising at least two composite articles as described in Claim 1, said articles being connected by plastic elements integrally formed from the same injection-molded plastic as said composite articles.

Claim 19. (Currently amended) The constructive element of Claim 18, wherein said at least two composite articles are co-planar elongated beams.

Claim 20. (Original) The constructive element of Claim 19, wherein said elongated beams are parallel and said plastic elements are transverse beams.

Claim 21. (Original) The constructive element of Claim 19, wherein said plastic elements are channel-shaped beams with open profiles.

Claim 22. (Original) The constructive element of Claim 21, wherein said open profiles have an open side oriented in one direction.

Claim 23. (Original) The constructive element of Claim 22, wherein the metal reinforcing elements of said elongated beams are oriented with their open side in the same direction as the open profiles of said channel-shaped beams.

Claim 24. (Currently amended) ~~A method for manufacturing~~ Manufacturing ~~[[the]] a~~
~~composite article of Claim 1 comprising a metal reinforcing element and molded plastic~~
~~coating firmly attached thereto, wherein the reinforcing element is formed to define an~~
~~open channel having a longitudinal axis and an open side parallel to the axis, and the~~
~~plastic coating includes a portion formed as a wall mechanically closing the open side of~~
~~the channel,~~ where the form of ~~[[said]]~~ the metal reinforcing element allows insertion, via
the open side of the channel, of a mold core snugly fitting ~~[[said]]~~ the reinforcing element,
~~the method including the manufacturing comprising:~~

- providing ~~[[said]]~~ the metal reinforcing element;
- providing ~~[[said]]~~ the mold core;
- providing a mold comprising at least two parts formed to define a mold cavity
therebetween when the mold is assembled, ~~[[said]]~~ the mold being adapted to
accommodate ~~[[said]]~~ the metal reinforcing element fixedly in ~~[[said]]~~ the mold cavity,
allowing space for ~~[[said]]~~ the plastic coating;
- inserting ~~[[said]]~~ the mold core in ~~[[said]]~~ the metal reinforcing element via ~~[[said]]~~
the open side, so that ~~[[said]]~~ the mold core snugly fits ~~[[said]]~~ the element;
- assembling ~~[[said]]~~ the mold parts and ~~[[said]]~~ the metal reinforcing element with
the inserted core therein so as to fix ~~[[said]]~~ the reinforcing element in the mold cavity of
~~said mold~~;
- injecting flowable and settable plastic coating into ~~[[said]]~~ the space to form ~~[[said]]~~
the composite article;
- releasing the obtained article including the reinforcing element, the set plastic
coating and ~~[[said]]~~ the mold core, by disassembling ~~[[said]]~~ the mold; and

- removing [[said]] the mold core from [[said]] the article in a direction along [[said]] the channel axis.

Claim 25. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 24, wherein the assembling of [[said]] the mold parts and [[said]] the metal reinforcing element is done by relative motion thereof transverse to [[said]] the channel axis.

Claim 26. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 24, wherein [[said]] the mold parts have a plurality of protrusions adapted to abut [[said]] the metal reinforcing element when [[said]] the mold is assembled, thereby fixing the reinforcing element in [[said]] the mold cavity.

Claim 27. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 26, wherein at least part of [[said]] the protrusions are relatively wide and have rounded edges so as to form in [[said]] the plastic coating decorative windows visibly exposing the surface of [[said]] the metal reinforcing element.

Claim 28. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 24, wherein [[said]] the reinforcing element has openings and [[said]] the injected plastic coating fills them.

Claim 29. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 28, wherein ~~[[said]]~~ the rigid core has recesses which are located opposite ~~[[said]]~~ the openings when ~~[[said]]~~ the mold core is inserted in ~~[[said]]~~ the reinforcing element, so that ~~[[said]]~~ the injected plastic coating can form protrusions obtained through ~~[[said]]~~ the openings, ~~[[said]]~~ the protrusions having swollen heads at the inner side of the channel.

Claim 30. (Currently amended) The ~~method~~ manufacturing of the composite article according to Claim 24, wherein ~~[[said]]~~ the mold core is assembled from at least two parts divided along the channel so as to facilitate the removing of ~~[[said]]~~ the core in a direction parallel to the channel axis.

Claim 31. (New) The manufacturing of the composite article according to Claim 24, wherein the plastic coating is thin.

Claim 32. (New) The manufacturing of the composite article according to Claim 31, wherein the plastic coating is 2-3mm thick.